

Guin (Govit #1 MT521PW-0008

PHA Plan Review

Pull Tubing

Plug #1 $m 4^{1/2}$ @ 9.5# 3850-3600 20 5x 15.8 w (1.95)

(ufl/sk)

(10.960)(1.15)(20) = 252 Linear Feet

Plug# 2 in 103/4 "(surface) @ 40.5# 100-surface 38.5× 15.8at Class 9 (70 Fill 41/20-103/4° Casing casing annulus)

(2.591)(1.15)(38) = 1/3 Linear Feet

Plug#3 in 41/2" @ 9.5# 1350-1250 85x 15,8 sed Class of (10,960)(1,15)(8) = 100.8 Whear Feer

Plug #4 in 41/2" @ 9.5# 100-surface 83x 15.8wl (1455) (10.960)(1,15)(8) = 100.8 Linear Feet

Cementry Calculations are correct

P+A review 10/2/84 Tubing Pulled GoinGS GOVENMENT NOW #1 NW POPLAR FIELD DOWNHOLE SCHENATIC Plug 2 reace 10003/4 6457 CEHENT 103/4 40.5 CHI'd @ 1302 (900 5K) Aunulu Fluis whilited Brive vares TOP OF CONEUT OF A'S" CSG @ 2240' 236" tobing with packer SET @ 3543' CEMOUST 4/2" 10.5 \$ 9.5 \$ J-55 CHI'd @ 4016 (150 51) 7" 23 # 26 # sta w/ top@ 3611' DAKOTA FORMATION PERFORATIONS: 3636-3716 3504-3634 3850 1,3600 45° C& & PBTD @ 3997 . Note: During original abandonneur, 7" csG was entoff of polled @ 3611'. Upm of 41's casing was run incide 7" casing STUB. The 41/2" CEG was concerted

from 3997 to 2240'.

14/84 Statement of Busis were # goings gov't # Ruse ver thy, MT UIC PRIMIT # MT 52/PW- 0008 Description of Facility, ... water from the top 13 wells producing from the Ball Charles formations The I do follows: Baker Coulder #1; Bucho Elle #1; Cowan Western; Cut Hair; going #1-10; Den Bear #2; Chen Bear #4;
Reid #10-1; Pichards # 1-2; Richards #1-3; War
Club #1R; ond the Zing War Club #2;
and the Zingen #1. The of Coings gov #1 has been injecting these for pucticed fillials into the Dakota Solmation since May 1,1977, There are no know drunking water well within the area of seven! Sano

● Soings Soit MT521PW-0008

@ Onjection Onderval

Permet Language: Dahota 3630-3830'

Statement & Basis! The Dakota Fm las

been exempted 19a 1/4 mile radius of the

well bose of the SS as a USB W.

In addition, the apple, has been injectin

fluid of almost 200,000 TDS since Many

1977 Therefrequesian experies entature

Cample of the practi possible. The MY

Oel + Sas Comme has modicated that

the area occur whome the

Bearpan Shale in this orea,

and are therefore protected

far my atin by the singlece

Casan.

Gel Date of Fiche (4) 10/2/84 80715801 + my 521PW-0008 Seyection Pressure Permit Lay -Statener of Basis & D ph 85 # 1

Can de a weel completed report related Much 17, 1977

Indicated The Mark of The Proport related Much 17, 1977 shalicated that the 1SIP for the Dahota Am is 900 psi, The appl. has requested will now militate packnes in the formate, In about according Of strong to. Pm = (0.733 - 0.433(5g))d 12377 Pm = (,237)d = 907,7 sg=1.145 908 psi ,4957 Shado,

· ofnjection Outerval Wure -Permit 3000 BWPD Stato Basis - Sene

(6). P+A Plan Permit Lany + EPA reserves the right to Change the manner in which the well must be plugged if the well is not proven to be discussed in coned to of this permit Start of Busis Pr A plan as submilled by the apple and included as att A will be considered satisfach on after the semittee are preven this manneyen is up EPA Requients as disc in conel 10 of the permet.

M. I of weed MI 0 Stritol Basis EPA has sivieved well logs two have was originally constructed in 1983, as a producer in the Charles C zone (6032-6062). In 1969, The weel was plugged and debandended . In the course of abandon, the well, the 7" productor still was cut & polled out of hole, leaving a stub top at 3611' It is not clear from the completion sepo wir honey or abandon me weport whether or not the 7" sho was comented from TD to 3611'. On recircle indicate it is not, that the ental complete of the well had entailed connecte the 7" Casing into place at TD of 6123' writz 150 3x of Cement. Una 9" hale, the height of the cement column only reachs to 5136! Muefore, we assume that the 7" casing 1) Uncernested from 3611' down to 5136'-(15251), The formations that are exposed in This uncomented judrial are relatively imperinceble (Jeter mined from the well los), Hore theless 1) The well commot be declared to here entegul until It has been proven that the perforation interval is isolated by comento, Converted to a wisw, the current week

Configuration is att included as attachment

BD This cons change, as represented by The applicant indicates on that the 7" way asy is cenerted fun3611 to the Toof the well.

(V)

well Constructes MI

Permit Language: a) a mit must be performed before the Of date of the perme con add the permettee must domenotrate the placement and intiguty afthe center bunds along Que well bore , and that those binds effectuely isolate the in zone. The permittee may do so by outh of either perferming + submitty to EPA En ingection - profile (raclidachie traces or tempstry) or by producing records demotrate the Circul configuration + inde grating of all the cener fines of the well, EPASSAC. Of the purnities connot give the funtities who letter of the in some the puntities when be obliged to block squery the meetin zore to seal of all chands
of commun. and subsequently repagnate

you in purposes, anada, the office
the coniect topin the 9"holet it 12" casin annulus

Status of Easts: See attache a 12 2240 mans Much orother metho O dekmines Theacces BCEPA,

87ml of Basis Oment borden of proving that there is an annulus, and between the 7"- hote fermation cennules, lies with the applicant. Prior and that the corrent port of applicant. To prove that the injections, zone (3630-3830) is isolated, I will may not allow the migration of in fluid up or down the well book the applicant perform one of the follow starts of het Enbrit a Eegy of the test to a a applier Marate statement of how the test data prives integrity of the amen but to ERT.

I Shyeckian Profile - either by temp survey or radioactive traces. This profile of must stow unegricably.
Two the that the rig fluid noved into the Sakota ONLY thu the disyrated 2. Prive that It Certhing of cenert bond logs , The cords) that The 7"5 Nb has been comented fur the top of the sty to the TD, and that the bind kees integrity Sutisf. The appl. connot prone to EPA's Sutisf. Heal the my lone has integrity, then the opple must run ablock squeeze,

of the in some from any communication wother zoned, ather alen the well bore a, refin the old casing. Because the Sur, curin is cutego the the gr 50 feel with the Clayger shale (1300), the uppernost potential osowis are considered Sofe for pres cent. Tolong as the cement bones fo have + mainting integrity, The there. Ilino well such exit this the Dstring of 2 7/8 inch tobing set in a phr above the per 65 @ 3543' and all the per 65 @ 3543' towever, EPA cannot allow centured. injection into this well until it had been dater that it has MI along the weeking fun the surface to the TD of the well, Smaddition the donntole schem inglicans that the ty of the 41/2" Cernel is 2240! Prois to the fl Deate of the sent, the cople must space proof that the Cent top A Recurse they had in the prois, I sold of sol is 2240!

	PHONE CALL DISCUSSION FIELD TRIP CONFERENCE	
RECORD OF		
COMMUNICATION	OTHER (SPECIFY)	
TO: ,	(Record of Item checked above)	
Toder Frenchte, Chief Spinking Water Granch	FROM: DATE 10/1/0/	
	for Graon Petroleum 077-7-7/	
SUBJECT		
FOI Oction of Emarmency Permits (ົດນ _{ຕູ} ້ ນຸບປີສ ^{ຸ ສຸ} ມ _າ ທູບປະ	
UMMARY OF COMMUNICATION		
regardish our denial of Emergency Grace Petroleum erred in their rethat a soundly-based request can called to a could best he made in a meeting to the Could best he made in a meeting to the Consecutive 30-day period." Furt leave the site." PLM has provide that lease condition according to	city Mannay, Attorney for Grace Petroleum v Permits Port, ongo and Offer. She feels equest (for Emergency Permits) and is certain the submitted under "Subsection 3," as she into details and offered that any explanation by bringing her proposal forward. Petroleum's PLM lease agreement will be ited actions "If no betroleum is produced for a other a RLM lease condition stipulates that "no brine and Grace Petroleum a temporary verbal release from the Mannay. Grace Petroleum is easer to discuss by foreser serious lease and production difficulties.	
- 820-9120 to set up a meeting in c	Pet Crotty would act back to Jim Johnson et our office for this weel. I did not have staff or Pet Crotty, Mich Long and Merrick Hobsor.	
CONCLUSIONS, ACTION TAKEN OR REQUIRED		
INFORMATION COPIES TO: Pat Crotty, Dick Lobg, Laura () EPA Form 1300-4 (7-72) REPLACES EPA NO FORM B	Temmens and Derrick Hobson	

October 1, 1984

MEMORANDUM:

T0:

Pat Crotty, Dick Long, Derrick Hobson, Roger Frenette

FROM:

Laura Clemmens

SUBJECT:

Conversation with BLM regarding Grace Petroleum

I called Pasqual Laborda of the Miles City office of the BLM in response to Roger's memo (attached). A representative from Grace had contacted him with regard to using a temporary disposal facility to handle the water that would normally be disposed of in the three shut-in wells we are currently permitting (EPU 110-XD, Goings Government, and Buck Elk 2). Grace cannot stop production from the source wells without losing their lease, so an alternative had to be found. According to Pasqual, Grace will be shipping the produced water to an existing well in Roosevelt County operated by Roosevelt Disposal Services. Grace will dispose of approximately 3000 BNPD of water into an existing salt water disposal well, thereby increasing the volume of disposal in that well by that amount (I don't know if we should be concerned about the additional disposal volume in the Roosevelt Disposal Services well at this time).

At my request, Pasqual told me that BLM will obtain the specific data on the temporary disposal well and send it to us as soon as possible. For future reference, what offices of BLM should we notify of our actions as stated in the MOU? The Billings office? The field offices? Someone should prepare a list of the appropriate addresses and phone numbers of the BLM contacts for our future use. I have sent copies of all our correspondence to Grace, as well as a copy of the 9/28 letter from Grace notifying us of their shutting in the three subject wells to Pasqual. For your information, Pasqual can be reached at (406) 232-4331.

	XX PHONE CALL DISCUSS	FIELD TRIP CONFERENCE	
RECORD OF COMMUNICATION	OTHER (SPECIFY)		
	(Record of item checked above)		
TO:	FROMMy Pasquale (sn) DATE		
Roger Frenette	Miles City Office of	TIME	
SUBJECT	<u> </u>	2:30 PM	
Grace Petroleum			
SUMMARY OF COMMUNICATION			
Received call from Mr. Pasq attempting to help Grace Petrole that would result from shutting wells producing 157 bls/d of oil found. (The brines from those 1 0008, and 0009.) He was concerned that he ha MOU. Have we sent him a copy of	um find alternative dispos in wells 0007, 0008, and 0 may need to be closed if 5 wells are currently inje d not received any data on	al practice/places 009. Fifteen (15) alternatives are not cted in wells 0007, our action per our	
of the 3 items in our letter. I also told him of events t permits. I told him wells 0007, amounts were given.			
He will search for other ex alternative temporary brine disp		ting brine pits as	
CONCLUSIONS, ACTION TAKEN OR REQUIRED			
No action required.			
i '	Sin Colland Paris	andana Ja	
And Taken: 1011/194 相	Corres or all our corresp	SOME TO	
Grain, and a copy of	Gracis sent to Mr.	ring is mad Farguala run.	
INFORMATION COPIES			
100	Pat Crotty, Dick Long		
252: 2 5 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	bick Long		

PHONE CALL DISCUSSION RECORD OF OTHER (SPECIFY) COMMUNICATION (Record of item checked above) Sept. 25, 1984 FROM: Richard Long Derrick Hobson TIME: 30 p.m. SUBJECT Grace Petr. and possible litigation efforts SUMMARY OF COMMUNICATION Tom Speicher got a call from Clenn Unterberger, Acting Associate Enforcement Counsel for Water Enforcement inwhich Unterberger expressed some concern over the Grace mittes situation. Evidently G.U. has been talking with Alan Morrissey. G.U. indicated that for the first enforcement cases that his office may be exerting significant authority (as in they may want to handle the case from Headquarters). Fortunatel Tom had more knowledge of the Grace situation than G.U. I was left with the impression that G.U. was not going to take any action over our objections at this time. Speicher wants Derrick to brief him and Al Smith on Thursday (9/27) on the specifics of the case. Derrick is xx preparing material for that briefing and I agreed to review it for him. There is no need for GW Section participation in the briefing. Tom has indicated to Derrick that he will fight to retain control of enforcement cases in the Region but that program help would be essential (in the Region and in Headquarters). The feeling is that Water Enforcement wants to call out the Marines and take immediate and harsh action. As a fall back the Rangers, with their rousing success on the dark forces of Granada would suffice. OGC on the other hand wants to have the first enforcement action be a significant one. They would prefer a case of documbut if this one is the only one they will take it on, blood. Enf. Sousitive CONCLUSIONS, ACTION TAKEN OR REQUIRED Racommendation from the Team Leader: It may be worth trying to muster support from within the Office of Drinking Water (Vic or Paul). We stand a much greater chance of retaining control over this situation (and all enforcement actions) if ODW is in our camp. Otherwise, I continue to say that our resources are best spent trying to get the permits out and I do not want to divert Laura onto the lit. report until after the permits are out for public comment.

Pat Crotty, Roger Frenette

INFORMATION COPIES

aura Clemmen

RECORD OF COMMUNICATION	OTHER (SPECIFY)	FIELD TRIP CONFERENCE
	(Record of item checked above)	
TO: Richard Long	FROM: Derrick Hobson	DATE Sept. 25, 1984 TIME: 30 p.m.
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OGC on the other hand wants to have the first enforcement action be a significant one. They would prefer a case of documented contamination but if this one is the only one they will take it on, but go after blood.

CONCLUSIONS, ACTION TAKEN OR REQUIRED

Recommendation from the Team Leader:

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Otherwise, I continue to say that our resources are best spent trying to get the permits out and I do not want to divert Laura onto the lit. report until after the permits are out for public comment.

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To: Zaura Clemmen

Pat Crotty, Roger Frenette